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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,392	10/29/2003	Robert Frigg	8932-819	6817
51832	7590	10/17/2005	EXAMINER	
JONES DAY			STOKES, CANDICE CAPRI	
222 EAST 41ST STREET			ART UNIT	
NEW YORK, NY 10017-6702			PAPER NUMBER	

3732

DATE MAILED: 10/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/695,392

Applicant(s)

FRIGG, ROBERT

Examiner

Candice C. Stokes

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-63 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-63 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>1/20/05</u> . | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

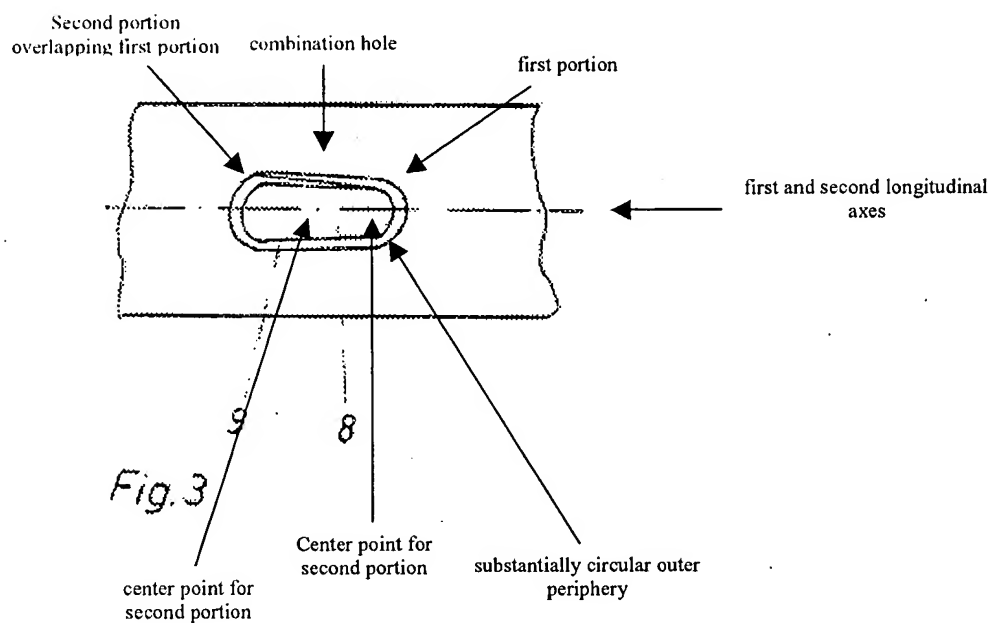
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3,6-8,11-12,25-27,30-33,44-46,49-51 and 53 are rejected under 35

U.S.C. 102(b) as being anticipated by Oertel (DE 4341980). Oertel discloses in Fig. 1 a plate with an upper surface 2, a lower surface 4 and a combination hole 8,9 extending through the upper surface 2 and the lower surface 4. The combination hole 8,9 includes a first portion 8 having a substantially circular outer periphery defining a first center point and a plurality of threads disposed on the outer periphery. The combination hole 8,9 also includes a second portion 9 overlapping the first portion 8 and having an elongated outer periphery defining a second center point wherein the first center point is spaced apart from the second center point along the upper surface. This also anticipates claims 31,44, and 53. As to claims 2 and 45 Fig. 3A shown below illustrates how the first center point is located between the second center point and the elongated outer periphery. Furthermore, regarding Claims 3,6-9,12,26-27,30,32-33,46, and 49-51 Fig. 3 as shown by Oertel illustrates the elongated outer periphery being substantially elliptical, the second portion 9 being configured to engage a screw-head and provide compression of fractured bone, the second portion 9 defining a concave recess in the upper surface 2 of the plate, a first longitudinal axis of the plate and a second longitudinal axis between the first and second center points wherein the first and second longitudinal axes are parallel and

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overlap, and the first and second center points of the combination hole 8,9 are located on the first longitudinal axis. As to Claim 11, Fig. 1 shows at least two combination holes 8,9 wherein the bone plate defines a first longitudinal axis and the at least two combination holes 8,9 are aligned along the first longitudinal axis. Finally to Claim 25, Fig. 2 shows the substantially circular portion 8 with a plurality of threads.



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***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1) Claims 10,13-20,22,24,34-39,41,43,52,54-59,61 and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oertel in view of Johnston (USPN 3,716,050). Oertel disclose the claimed invention except for the second longitudinal axis being spaced apart from the first longitudinal axis, the plate having a first section and a second section which intersect and have transverse axes wherein the first section is longer than the second section and at least one combination hole is located in the first section, the plate being L-shaped or T-shaped. Oertel also does not teach the first portion of the combination hole located closer to the intersection of the first section and the second section than the second portion of the combination hole. Finally Oertel does not teach the plate being bent or twisted. As to Claims 10,14-15,34,52, and 54 Johnston teaches a bone plate 20 having a first section 22 having a first longitudinal axis and a second section 24 having a second longitudinal axis wherein the first section is longer than the second section. The first and second longitudinal axes are transverse one another and the first and second sections intersect. Regarding Claims 13,16-18,20,35-37,39,55-57,59 Johnston teaches at least one combination hole in the first section 22 and the second section 24 of bone plate 20. In the first section 22 is combination hole 26,26' and in the second section 24 is combination hole 34,34' which is spaced apart from the first longitudinal axis. Further, the bone plate 20 is substantially a bent L-shape. The first portion 34 of combination hole 34,34' is located

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closer to the intersection of the first and second sections 22,24 than is the second portion 34' of the combination hole 34,34'. As to Claims 19,38, and 58 Fig. 1 of the Johnston patent shows the plate 20 is anatomically contoured. With regards to Claims 24,43, and 63 there is at least one non-combination hole 28 extending through the upper and lower surfaces and configured to receive a bone fastener. Also regarding Claims 22,41, and 61 Fig. 4 shows a bone screw 36 having a substantially spherical head for engaging the second portion. It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the teaching of the Johnston plate into the invention disclosed by Oertel in order to provide a plate that is contoured for and capable of securing a specific bone region for a more precise fit.

2) Claims 4-5,21,28-29,40,47-48, and 60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oertel in view of Talos et al (USPN 5,709,686). Oertel disclose the claimed invention except for the lower surface of the plate being concave, the plurality of threads disposed on the outer periphery of the first portion of the combination hole extending over an angle greater than about 180° and tapering radially inward in a direction from the upper surface to the lower surface. Talos et al teach a bone plate and in Fig. 1 Talos et al show a plurality of threads disposed on the outer periphery of the first portion of the combination hole extending over an angle greater than about 180° and tapering radially inward in a direction from the upper surface to the lower surface. Furthermore, in Fig. 7 Talos et al teach the lower surface of the plate being concave. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teaching of Talos et al into the plate disclosed by Oertel in order to provide a plate that more securely holds bone screw in the first portion of the

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combination hole and with a lower surface which is more contoured to the surface of the bone which will enable the plate to fit more securely to the bone.

3) Claims 23,42, and 62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oertel in view of Weaver et al (USPN 66,623,486). Oertel discloses the claimed invention except for the bone screw having a threaded head for engaging the first portion of the combination hole. In Fig. 2, Weaver et al show bone screws 20 with threaded head 24. It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the screw as taught by Weaver et al into the invention disclosed by Oertel in order to more securely fit the screws in the threaded first portion in an interlocking fashion to prevent loosening of the screws.

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Candice C. Stokes whose telephone number is (571) 272-4714. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Candice C. Stokes

  
Cary E. O'Connor  
Primary Examiner